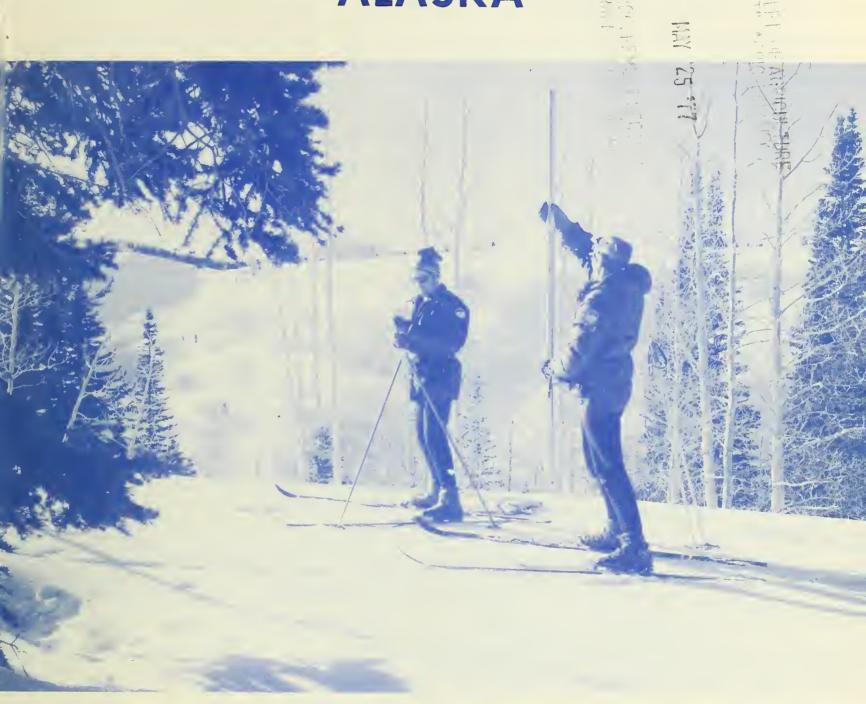
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A 292.9 So35 P.1

SNOW SURVEYS and WATER SUPPLY OUTLOOK for ALASKA



U. S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

ALASKA SOIL CONSERVATION DISTRICT

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in odvance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivolent of the mountain snowpock.

Forecasts become more occurate os more of the data affecting runoff are meosured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecosts ore therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys ore mode monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streomflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streomflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states obout every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.

ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alasko 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idoho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 841 38
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for Californio by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victorio, British Columbia

FEDERAL - STATE - PRIVATE

SNOW SURVEYS AND WATER SUPPLY OUTLOOK FOR ALASKA

Issued by

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WASHINGTON, D C.

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Report prepared by

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SNOW SURVEY SUPERVISOR SOIL CONSERVATION SERVICE 2221 EAST NORTHERN LIGHTS BLVD., RM. 129 ANCHORAGE, ALASKA 99504



ALASKA RANGE NEAR RAINY PASS

ALASKA SUMMARY
as of
MAY 1, 1977

A very heavy snowpack remains in many areas across the State. In striking contrast a lean snow belt exists between the Alaska Range and Yukon River.

Snowfall for the month of April was highly localized and variable. Mountain snow courses indicate April being cooler than normal, although valley snowpack is gone in many places. Breakup, as compared to last year, is generally way behind, but some southern valleys are ahead.

Snowmelt runoff from drainages south of the Alaska Range will be much greater than usual with clearwater streams remaining high much later than usual. Meanwhile, the coming spring and summer stream flow in the Fairbanks area will be approximately 30 percent below normal.

There is a great potential in the mountains along Alaska's Gulf Coast for huge climax-type avalanches as the extremely heavy, high elevation snowpack warms up in May and early June.

A special reconnaissance survey of the snowcover on Alaska's western north slope was recently completed by the U. S. Geological Survey. The preliminary, unchecked data of this first-ever snow survey of that region is listed on page 11-12.

More specific information by regions is as follows:

Koyukuk and Yukon Drainages

Snowpack in the head waters of the Koyukuk is well above average while pipeline corridor courses indicate the Brooks Range foothills slightly above average. The east end of the Range remains covered by a very heavy snowpack.

Tanana-Chena Drainages

April precipitation in the region was spotty but most areas received at least average or slightly above the normal monthly increment. As a result, the Chena River forecast is up 7% from a month ago to an expected 29% deficit of average. This expected April through July flow; however, is 9% greater than that recorded for the same period last year.

In contrast, drainages such as the Delta River with high elevation headwaters in the Alaska Range should flow well above normal during the snowmelt period. A cooler than normal April has kept streamflow pretty much limited to valley bottom snow melt.

Copper Drainage

April snowfall was also highly variable in the Copper Drainage. Most snow courses within the basin are in a range of 30 to 60 percent above normal, while the surrounding mountains are 40 to 100 percent above. Last years May 1 readings are generally less than half this years.

Matanuska-Susitna Drainages

Snowpack throughout the region is generally 30 to 60 percent above normal and all areas way heavier than last year. The lower Susitna Valley is one of the heaviest areas percentage wise.

Upper Cook Inlet Kenai Peninsula and Prince William Sound

The snowpack in the Kenai, Chugach and St. Elias Mountains above 1500 feet is most unusual. The Wolverine Glacier snow courses are of particular interest, being much higher and a better index than any others in the region. These courses were last measured by the U. S. Geological Survey on February 25th at which time the highest of the three, at an elevation of 4430 feet, measured 406 inches depth and 183 inches snowpack water content. This was almost twice as great as the previous maximum in the past 13 years for March 1st and about 300 percent of normal.

Snow courses to the east and west indicate the region has continued to receive snow at a record pace ever since, although the rate slowed markedly during April. Many courses including those around Valdez, others on the Kenai Peninsula and in the Ship Creek drainage near Anchorage show a maximum snowpack for their period of record. The Wolverine Glacier courses are next scheduled to be measured in late May or early June.

The Ship Creek drainage is now forecast to flow 91,000 acre feet or 54 percent above average for the April through July period. This is a percent higher than the forecast last month. Indian Pass snow course, indicative of Ship Creek headwaters, is not only maximum of record for the past eleven years, it is 40 percent greater than the previous maximum recorded in 1968. At the same time, median elevations within the drainage are only slightly above average.

The Valdez area has the heaviest recorded low-elevation snowpack in the State. The Valdez course, located a short ways out of town, had better than 6 feet of snow and 2-1/2 feet of water on the ground. This is 20 percent higher than the previous heavy year of 1972.

Southeast

Snow conditions in the Juneau area are very near average amounts for May 1st. This is approximately 30 percent below last years heavy snowpack.

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet			Last Year <u>2</u> /	Average +	
YUKON RIVER at Eagle PORCUPINE RIVER near Ft. Yukon SALCHA RIVER near Salchaket CHENA RIVER at Fairbanks LITTLE CHENA RIVER near Fairbanks YUKON RIVER at Ruby SHIP CREEK near Anchorage 1/ SOUTH FORK CAMPBELL CREEK at Canyon Mouth near Anchorage	30,000 8,500 500 400 76 70,000 91 21.5	8-6% 118% 65% 71° 82% 105% 154%	April-July April-July April-July April-July April-July April-July April-July April-July	35,920 8,949 428 348 69 58,420 54	34,925 7,200* 767 560 93* 67,012 59	
1/ Measured flow adjusted for diversion.	;					
2/ Provisional data, subject to revision.						
* Estimated.					- 1	

10W			THIS YEAR		PAST RECORD				
DRAINAGE BASIN and/or SNOW C	OURSE		Date	Snow Depth	Water Content	Water Cont	ent (inches)	Years o	
NAME	Number	Elevation	of Survey	(inches)	(Inches)	Last Year	Average +	Record	
AS OF APRIL 15, 1977									
KOYUKUK DRAINAGE:									
Anaktuvuk Pass	75	2100	4/18	31	7.0	N/S		0	
Cold Foot Camp	109	1000	4/15	31	6.0	7.1		2	
Dietrich Camp	110	1550	4/15	27	4.7	4.3		2	
Prospect Creek Camp	108	980	4/15	33	6.9	7.0		1	
Table Mountain	111	2200	4/15	27	5.0	5.5		1	
TANANA-CHENA:									
Caribou Mine	55	1115	4/15	19a	4.5e	3.3e	4.8	11	
Cleary Summit	64	2230	4/15	29a	6.4e	6.7e	7.2	14	
Little Chena	62	2200	4/15	32a	7.0e	5.3e	5.7	15	
Lower Chena	59	2000	4/15	27a	5.5e			0	
Mt. Ryan	61	2950	4/15	37a	8.0e	5.9e	8.1	15	
Munson Ridge	56	3100	4/15	38a	8.8e	14.6e	15.5	15	
Teuchet Creek	57	1640	4/15	18a	4.3e			0	
Upper Chena	58	3000	4/15	38a	8.4e	8.4e	6.8	7	
YUKON DRAINAGE:									
Five Mile	106	400	4/15	32	6.6	N/S		0	
Thirty Mile	107	1300	4/15	39	9.0	N/S		0	
AS OF MAY 1, 1977									
KOYUKUK DRAINAGE:									
Cold Foot Camp	109	1000	5/1	25	5.9	5.5	5.7	6	
Dietrich Camp	110	1550	5/1	20	4.4	0.0	2.0	6	
Prospect Creek Camp	108	980	5/1	27	7.0	3.5	6.0	6	
Table Mountain	111	2200	5/1	25	5.7	3.0	3.8	4	
YUKON DRAINAGE:									
Five Mile	106	400	5/1	21	6.5	0.0	3.7	5	
Log Cabin	105	2880	4/27	34	11.2	14.6	11.8	19	
Thirty Mile	107	1300	5/1	37	9.1	N/S		3	
a - aerial marker e	- estimat	ed	N/S -	No Surve	V.				
a - aeriai marker e	- estimat	ea	N/5 -	NO Surve	у				

+ 1958-1972 period.

DRAINAGE BASIN and/or SNOW COURSE NAME Number CANANA-CHENA: S2 Big Delta 52 Bonanza Creek 66 Caribou Creek 68 Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47 Monument Creek 60	980 1150 1440 1115 2230 750 3000 1420 2010 1240 1950 2200 2000	Date of Survey 4/27 5/5 4/28 4/25 4/26 4/25 4/27 4/27 4/27 4/28 4/29	0 6 11 13 23 14 57 0 16	0.0 1.7 3.1 4.9 6.4 3.7 17.7 0.0	0.0 0.0 0.0 0.0 0.0 N/S 0.0 8.0	0.3 3.8 2.9 4.6 7.9 3.4	Previous Record
CANANA-CHENA: Big Delta 52 Bonanza Creek 66 Caribou Creek 68 Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	980 1150 1440 1115 2230 750 3000 1420 2010 1240 1950 2200	4/27 5/5 4/28 4/25 4/26 4/25 4/27 4/27 4/27 4/27	0 6 11 13 23 14 57 0	0.0 1.7 3.1 4.9 6.4 3.7 17.7 0.0	0.0 0.0 0.0 0.0 N/S 0.0 8.0	0.3 3.8 2.9 4.6 7.9 3.4	16 9 6 11 16
Big Delta 52 Bonanza Creek 66 Caribou Creek 68 Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1150 1440 1115 2230 750 3000 1420 2010 1240 1950 2200	5/5 4/28 4/25 4/26 4/25 4/27 4/27 4/27 4/28	6 11 13 23 14 57	1.7 3.1 4.9 6.4 3.7 17.7 0.0	0.0 0.0 0.0 N/S 0.0 8.0	3.8 2.9 4.6 7.9 3.4	9 6 11 16
Bonanza Creek 66 Caribou Creek 68 Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1150 1440 1115 2230 750 3000 1420 2010 1240 1950 2200	5/5 4/28 4/25 4/26 4/25 4/27 4/27 4/27 4/28	6 11 13 23 14 57	1.7 3.1 4.9 6.4 3.7 17.7 0.0	0.0 0.0 0.0 N/S 0.0 8.0	3.8 2.9 4.6 7.9 3.4	9 6 11 16
Caribou Creek 68 Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1440 1115 2230 750 3000 1420 2010 1240 1950 2200	4/28 4/25 4/26 4/25 4/27 4/27 4/27 4/27 4/28	11 13 23 14 57 0	3.1 4.9 6.4 3.7 17.7 0.0	0.0 0.0 N/S 0.0 8.0	2.9 4.6 7.9 3.4	6 11 16
Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1115 2230 750 3000 1420 2010 1240 1950 2200	4/25 4/26 4/25 4/27 4/27 4/27 4/28	13 23 14 57 0	4.9 6.4 3.7 17.7 0.0	0.0 N/S 0.0 8.0	4.6 7.9 3.4	11 16
Caribou Mine 55 Cleary Summit 64 Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1115 2230 750 3000 1420 2010 1240 1950 2200	4/25 4/26 4/25 4/27 4/27 4/27 4/28	13 23 14 57 0	4.9 6.4 3.7 17.7 0.0	0.0 N/S 0.0 8.0	4.6 7.9 3.4	16
Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	2230 750 3000 1420 2010 1240 1950 2200	4/26 4/25 4/27 4/27 4/27 4/28	14 57 0	3.7 17.7 0.0	0.0	3.4	
Colorado Creek 63 Fielding Lake 49 Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	750 3000 1420 2010 1240 1950 2200	4/25 4/27 4/27 4/27 4/27 4/28	57 0	17.7 0.0	8.0		11
Fort Greely 50 French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1420 2010 1240 1950 2200	4/27 4/27 4/28	0	0.0		1 1 2 7 1	
French Creek 53 Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	2010 1240 1950 2200	4/27 4/28				12.7	16
Granite Creek 51 Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1240 1950 2200	4/28	16		0.0	1.4	10
Haystack Mountain 67 Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	1950 2200			4.6	0.0	5.9	14
Little Chena 62 Lower Chena 59 Little Salcha 54 Mentasta Pass 47	2200	4/29	0	0.0	0.0	1.2	9
Lower Chena 59 Little Salcha 54 Mentasta Pass 47			21	5.2	3.6	7.5	7
Little Salcha 54 Mentasta Pass 47	2000	N O	SURV	ΕY	N/S	6.1	15
Mentasta Pass 47		4/25	17	5.2	N/S		0
	1500	4/27	9	2.5	0.0	4.1	14
Monument Creek 60	2430	4/27	32	9.7	0.3	5.6	15
	1900	N O	SURV		N/S	5.4	4
Mt. Ryan 61	2950	N O	SURV		N/S	9.0	15
Munson Ridge 56	3100	4/25	37	10.3	11.3	15.6	15
Poker Creek (CRREL) 69	1025	4/28	11	2.5	0.0	2.9	7
Teuchet Creek 57	1640	4/25	13	4.1	0.0	2.8	4
Tok Junction 46	1650	4/27	0	0.0	0.0	1.4	15
Upper Chena 58	3000	4/25	31	9.0	N/S	9.5	9
Yak Pasture 65	540	4/25	0	0.0	0.0	2.1	16
OPPER RIVER:							
Haggard Creek 48	2540	4/27	28	8.5	0.6	5.1	11
Little Nelchina 31	4160	4/27	38a	9.1e	5.2e	6.0	8
Mankomen Lake 45	3050		D REPORT		3.4	6.9	9
St. Anne's Lake 28	1990	4/27	12a	3.0e	2.8e	3.1	11
Sanford River 27	2280	4/27	18a	4.5e	0.6e	3.1	10
Tsaina River 35	1500	4/27	64	23.1	12.3	12.5	5
Worthington Glacier 36	2400	4/27	98	41.9	23.0	20.8	19
ATANUSKA-SUSITNA:							
Alexander Lake 18	200	4/27	44a	14.5e	9.6e	9.2	11
Bald Mountain Lake 23	2150	4/27	56a	15.7e	5.4e	9.4	12
Chelatna Lake 20	1650	4/27	35a	11.2e	10.8e	10.6	11
Clearwater Lake 26	3100	4/27	19a	4.4e	3.2	4.5	12
Devils Canyon 121	1350	4/27	39a	9.4e	N/S		0
Fog Lakes #2 24	2250	4/27	29a	7.5e	3.5e	6.0	7
Independence Mine 33	3300	4/28	83	30.7	20.5	22.3	7
Lake Louise 29 Monahan Flat 25	2400	4/27	20	4.5	2.2	3.4	12
Monahan Flat 25 Oshetna Lake 30	2710 2950	4/27	38 21	10.1 4.8	6.6 2.2e	7.7	12 12
Peters Hills 21	2930	4/27	68a	22.4e	16.5e	16.9	9
Sheep Mountain #2 34	2900	4/27	27	6.5	4.4	3.9	5
Skwentna 19	160	4/27	36	11.0	6.7	7.0	10
Talkeetna 22	350	4/27	28	8.1	6.1	6.8	10
Willow Airstrip 32	150	4/27	21	6.0	0.0	3.2	11
RINCE WILLIAM SOUND:		, = ,					
Lowe River 37	550	4/27	63	24.3	13.4	11.9	4
Valdez 38	50	4/27	76	30.3	17.7	13.3	4

+ 1958-1972 period.

DRAINAGE BASIN and/or SNOW CO	DURSE		Date	Snow Depth	Water	Water Cont	ent (inches)	Years
NAME	Number	Elevation	of Survey	(Inches)	Content (Inches)	Last Year	Average +	Previou Recor
PPER COOK INLET DRAINAGES:								
Arctic Ski Bowl	5	3000	4/30	51	18.2	11.0	12.7	12
Arctic Valley #1	l	500	4/30	0	0.0	0.0	0.3	12
Arctic Valley #2	2	1000	4/30	0	0.0	0.0	0.7	12
Arctic Valley #3	3	2030	4/30	19	5.8	1.2	3.0	12
Arctic Valley #4	4	2330	4/30	25	7.4	2.3	4.0	12
Bird Creek	8	2350	4/28	55	22.7	23.7	19.2	10
Indian Pass	7	2350	4/28	87	36.7	25.5	23.1	10
McArthur	17	120	4/27	55a	20.4e	18.5e	16.2	10
Mt. Alyeska	10	1200	4/29	131	56.3	44.7	44.9	4
Ship Creek	6	1750	4/28	34	12.2	12.5	11.0	10
South Campbell Creek	9	1200	4/28	15	4.9	5.4	6.4	4
ENAI PENINSULA:								
Bertha Creek	11	850	4/29	53	19.7	20.4	17.0	6
Bridge Creek, Lower	16	1100	4/28	48	17.1	14.4	12.9	5
Bridge Creek, Upper	15	1300	4/28	48	17.8	14.6	12.9	5
Jean Lake	14	620	4/29	0	0.0	0.0	1.2	7
Kenai Summit	12	1390	4/29	49	17.3	12.4	10.7	7
Moose Pass	13	700	4/29	0	0.0	5.1	3.7	7
OUTHEAST ALASKA:								
Cropley Lake	94	1650	5/3	37	16.3	N/S		0
Douglas Ski Bowl	93	1640	5/3	98	45.9	66.1	43.0	9
Eagle Crest	95	1000	5/3	0	0.0	N/S		0
Fish Creek	96	500	N O	SURV		N/S	~~~	0
Lake Shore	104	660	N O	SURV		N/S	26.9	4
Speel River	98	280	4/30	66	30.6	47.4	32.5	11
ACIER STATIONS:								
Gulkana A	42	4590	11/19	48	12.6			9
Gulkana B			3/21	85	29.9			9
	43	5480	11/19 3/21	75 128	23.2 51.2			9
Gulkana C	44	6360	7/28 11/19	47 96	24.0 31.5			9 9
Wolverine A	39	2130	3/21 10/19	155 4	62.2			9 9
Wolverine B	40	3610	2/23 10/15	193 31	104.3			9
Wolverine C	41	4430	2/26 10/20		126.8			9
	41	4430	2/25		183.1			9
		1						

0/20 1/23 1/23 1/23 1/23 1/24 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/18 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/6 1/7 1/7 1/6 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7	Contents Contents	Last Year	ACCUMU- LATIVE TOTAL .6 1.7 2.1 3.1* 3.8* 1.2 1.4 3.1 4.2* 4.4 4.9 .6 1.1 .8 .9 1.9 3.7 4.3 5.1	Years Previo Recor
/20 Initia //20 //23 //23 //23 //23 //23 //22 //3 Initia //3 Initia //3 Initia //3 Initia //4 //26 //27 //26 //3 Initia //3 Initia	INCREMENT SINCE LAST READING 1 Reading .6	J	ACCUMU- LATIVE TOTAL .6 1.7 2.1 3.1* 3.8* 1.2 1.4 3.1 4.2* 4.4 4.9 .6 1.1 .8 .9 1.9 3.7 4.3 5.1	
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/20 Initia //20 //23 //23 //23 //23 //23 //22 //3 Initia //3 Initia //3 Initia //3 Initia //4 //26 //27 //26 //3 Initia //3 Initia	READING Reading .6 1.1 .4 1.0* .7* Reading 1.2 .2 1.7 1.1** .2 .5 Reading .6 .5 Reading .6 .5 Reading .8 .1 1.0 1.8 .6 .8 Reading 2.6 1.1		.6 1.7 2.1 3.1* 3.8* 1.2 1.4 3.1 4.2* 4.4 4.9 .6 1.1 .8 .9 1.9 3.7 4.3 5.1	
0/20 1/23 1/23 1/23 1/23 1/24 1/30 1/4 1/30 1/4 1/30 1/4 1/4 1/26 1/27 1/27 1/26 1/30	.6 1.1 .4 1.0* .7* Reading 1.2 .2 1.7 1.1** .2 .5 Reading .6 .5 Reading .8 .1 1.0 1.8 .6 .8 Reading 2.6 1.1		1.7 2.1 3.1* 3.8* 1.2 1.4 3.1 4.2* 4.4 4.9 .6 1.1 .8 .9 1.9 3.7 4.3 5.1	
7/6 1/22 1/21 1/8 1/3 1/13 1/30 1/18 1/4 1/26 1/27 1/27 1/27 1/27 1/27 1/27 1/27 1/28 1/30	1.2 .2 1.7 1.1** .2 .5 1 Reading .6 .5 1 Reading .8 .1 1.0 1.8 .6 .8		1.4 3.1 4.2* 4.4 4.9 .6 1.1 .8 .9 1.9 3.7 4.3 5.1	
718 77 10/6 Initia 74 726 727 726 715 718 Initia 730 718	.6 .5 1 Reading .8 .1 1.0 1.8 .6 .8 1 Reading 2.6 1.1		1.1 .8 .9 1.9 3.7 4.3 5.1	
//4 //26 //27 //27 //26 //15 //18 Initia //30 //18	.8 .1 1.0 1.8 .6 .8 1 Reading 2.6 1.1		.9 1.9 3.7 4.3 5.1	
2/30 '18	2.6 1.1			
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/20 Initia //21 //23 //23 //21 //22 //22	Reading 1.0 .2 .4 1.4 .7* .6*		1.0 1.2 1.6 3.0 3.7* 4.3*	
7/3 Initia 2/9 7/5 7/12 7/28 7/17 7/24 7/29	Reading . 2 . 2 1 3 2 . 0 . 0 2 2		.2 .4 .5 .8 1.0 1.0 1.2	
	/21 25 12 20 Initia /21 /23 /23 21 5 2 /3 Initia /9 5 12 28 17 24 2	721 25 12 1.1** .3 20	721 25 1.1** .3 20 Initial Reading 1.0 .2 .4 1.4 .7* .6* /3 Initial Reading .2 .1 .3 .7 .6*	721

+ 1958-1972 period.

DRAINAGE BASIN and/or SNOW COL			Maran	PAST RECORD Water Content (inches) Yea				
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †	Years of Previous Record
NORTH SLOPE CONTINUED:					INCREMENT SINCE LAST		ACCUMU- LATIVE	
"Wyoming" Precipitation Gages (for	1977 wa	ter year)	DATE		READING		TOTAL	
Prudhoe Bay	114	30	9/18 11/7 11/23 12/27 1/26 2/26 4/15	Initial	Reading 1.5 .4 .8 1.4 .5		1.5 1.9 2.7 4.1 4.6 5.4	
Sagwon	113	1000	11/11 1/26 2/27	Initial	Reading 1.6 .4		1.6	
Toolik River	112	3100	9/20 11/11 1/26 2/28	Initial	Reading 1.6 1.4 .3		1.6 3.0 3.3	
* Readings affected by rhime ice.								
** Gage found capped by rhime on thi	s date.							

^{+ 1958-1972} period.

* The Wyoming Gage is a new device for accurately collecting rain and snowfall in windy unprotected areas. It was developed during the period 1969 through 1974 near Laramie, Wyoming, by the University of Wyoming and the United States Forest Service Forest and Range Experiment Station. The study area was a barren, wind swept ridge, similar to Alaska's tundra. During this period the new design consistently caught + 10 percent of the "control" gages located in protected areas nearby.

The basic configuration of the gage has two concentric rings of snow fences surrounding the orifice of the precipitation storage can. The four foot snow fence "mesh" is rigidly attached to a solid framework. The outer circle is ten feet off the ground and 20 feet in diameter; the inner circle is eight feet off the ground and 10 feet in diameter. The level of the storage can orifice is seven feet above the ground surface. A precipitation gage of any standard design, whether recording or non-recording can be used.

The Wyoming Gage "works" during howling snow storms by creating a slight vaccuum area within the fencing material which pulls down into the storage can the snow particles which might be traveling more nearly horizontal than vertical. Without the windscreen, the precipitation gage would collect only a small percent of falling snow during windy periods. During blowing snow conditions between storms, almost all of the moving material is passed beneath the gage.

The initial network of Wyoming gages on Alaska's North Slope has been accomplished through the efforts of Alaskan Arctic Gas Study Company and the University of Alaska's Geophysical Institute. They cooperatively established the first gages at Barrow and Meade River in late 1975. Alaskan Arctic Gas Study Company then established gages at Prudhoe Bay, and Kaktovik (Barter Island) that same year. They built two more sites in Alaska in 1976 on the Kavik and Jago Rivers. The "word" about Wyoming gages began to get around and the Soil Conservation Service installed two gages on the Seward Peninsula at Candle and the Kugruk River. The U. S. Army Cold Regions Research and Engineering Laboratory also established sites at Sagwon, Toolik River and at Point Hope.

Four additional Wyoming gages were put in operation in 1976 but data is unavailable at this time. Two are on the arctic coastal plain in Yukon Territory, installed by Alaskan Arctic Gas Study Company and two are in the Caribou-Poker Creek Research Watershed operated by the Institute of Northern Forestry in Fairbanks.

No.	Location T. R. S.	Name	Elev.	Site Description	Date	Depth*	Water*	Den.
1	4N 4FW F	D4 Lov	1.0	Coastal Plain tundra	4-18	25.2	8.6	.34
$\frac{1}{2}$	4N 45W 5	Pt. Lay Lake nr	10 30	Drift on east bank of	4-18	43.7	18.8	.43
2	2N 44W 7		30	lake over ice	4-13	45.7	10.0	• 43
*		Kukpowruk R.		Tundra east of lake	4-19	8.7	3.1	.36
3	3S 42W 1	Vikluniklak	480	Kokolik R channel over		7.9	2.4	.31
3	35 42W 1	Kiklupiklak Hills	400	ice	4-13	7.5	2.4	. 51
•		пттть		River terrace willows	4-19	26.4	7.4	.28
				Tundra	4-19	9.8	2.4	. 24
4	1N 39W 24	Kokolik R.	290	Low foothill tundra	4-19	7.5	1.7	.23
4	IN 39W 24	KOKOTIK K.	290	Left bank drift over	4-19	42.5	14.4	.34
				ice	4-13	42.3	14.4	• 57
5	5S 38W 27	Meat Mountain	1150	Lowland tundra in	4-19	10.2	3.0	. 29
3	33 36W 27	Meat Mountain	1130	foothills	7 13	10.2	5.0	. 20
6	3S 33W 7	Disappointment	350	Tundra in broad valley	4-20	12.6	4.0	.32
U	33 33W 7	Creek	330	Tuneta in broad variey	7 20	12.0	110	
7	13N 30W 14	Kungok R Lagoon	20	Tundra adjacent to	4-23	8.7	2.8	.32
,	1311 3011 11	nr Wainwright		lagoon			- , -	
8	3S 30W 31	Lookout Ridge	1700	Tundra on upland	4-20	30.3	9.7	.32
9	9S 29W 5	Kiligwa R.	1900	Tundra on upland	4-20	31.1	10.0	.32
10	7S 27W 6	Liberator Lk.	1650	Tundra west of lake	4-20	26.4	6.3	. 24
11	13N 21W 18	Atkasook	65	Tundra nr Meade R.	4-23	12.6	3.9	.31
	2011 2211 20			Lake ice	4-23	3.2	. 9	.28
12	18N 20W 16	Niklavik Cr.	45	Coastal plain tundra	4-23	11.8	4.5	.39
13	5N 17W 16	Ishuktak Cr.	300	Upland tundra	4-23	11.8	3.4	. 28
14	3S 18W 3	Birthday Pass	1270	Upland tundra	4-27	24.8	6.5	. 26
15	10S 21W 14	Ekakevik Mt.	1950	Upland tundra	4-27	26.0	6.8	. 26
16	22N 17W 16	Mayoeak R	10	Coastal plain tundra	4-22	8.7	3.1	.36
		nr Barrow		1				
17	6S 17W 17	Etivuk R.	980	South end gravel	4-21	18.9	4.7	. 25
				airstrip				
18	31N 12E 2	Etivlik Lake	2070	Snow over lake ice	4-27	9.5	3.1	.32
19	4S 14W 34	Colville R.	720	River channel ice	4-20	17.3	4.2	. 24
				River terrace willows	4-22	26.8	4.8	.18
20	7N 13W 22	Lake nr	165	Tundra at edge of lake	4-22	8.3	2.6	.32
		Oumalik R.						
21	4N 13W 16	Lake nr	250	Tundra at edge of lake	4-22	15.8	4.6	.29
*		Bronx Cr.						
22	16N 11W 17	S. Simpson	10	Coastal plain tundra	4-22	6.7	2.1	. 32
		well site						
23	20N 11W 27	Cape Simpson	10	Coastal plain tundra	4-22	7.1	2.1	.30
24	4S 11W 5	Knifeblade Rdg.	1300	Tundra on upland	4-21	22.4	6.0	.27
25	1N 10W 8	Watermelon L.	350	Tundra at edge of lake		20.9	5.8	. 28
26	30N 18E 10	Kakivilak Cr.	2100	Low willow terrace	4-27	21.3	4.8	.23
27	3S 8W 1	Kimikpak Ridge	900	Tundra on upland	4-21	22.4	5.4	. 24

^{*} Provisional data from U. S. Geological Survey.

No.	Loca	tion	Name	Elev.	Site Description	Date	Depth*	Water*	Den.
110.	7. R		radio	LICV.	Site Description	Duco	in.	in.	%
	1 , 1						L31.	Li1.	70
28	7S -	7W 21	Killik R.	900	Tundra in broad valley	1-21	21.3	5.5	. 26
29		7W 34	Okpikruak R.	1800	Lowland tundra	4-27	16.1	4.2	.26
30	11N (6W 17	Kealon Cr.	130	Tundra on coastal plain	4-22	12.2	3.8	.31
31	18N :	5W 17	Lonely	15	Coastal plain tundra	4-22	9.1	3.1	.34
32	14N	1W 18	Kogru	20	Coastal plain tundra	4-22	6.7	2.1	.31
33	11N	1W 23	Fish C Well St.	75	Lake ice	4-22	6.3	2.3	.37
					Tundra at edge of lake	4-22	9.8	2.9	. 29
34	1S :	1W 9	Umiat	300	Low willows on high	4-22	21.6	4.8	.22 *
					terraces of Colville	₹.			
35	10N :	5E 18	Nuiqsut	40	Low willows on high	4-22	14.2	3.7	. 26
					terraces of Colville	₹.			e
36	11S 2	2W 5	Castle Mountain	2100	Upland tundra	4-24	12.2	3.7	.30
37	13S	1E 8	Confusion Cr.	2700	Broad upland tundra	4-18	21.0	5.6	. 27
38	5S 4	4E 29	Anaktuvuk R.	1000	Lowland tundra	4-24	26.8	6.6	.25
39	15S 2	2E 20	Anaktuvuk Pass	2100	Willows along Contact	4-18	30.7	5.8	.19
			(SCS course)		at SE end of airstrip				

^{*} Provisional data from U. S. Geological Survey.

INDEX OF ALASKA SNOW COURSES

Section Company Comp		NEAS * MAD COURSE *															
Control Cont			COURSE * NO. *	ELEV.	LAT.	LONG.	MEAS. DATES*	MEAS.* BY		MAP NO.	COURSE NAME	COURSE *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. * BY
2 Section	1	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	С					2040	67°30'N	148°30'W	3,4	а
A CAPTIC CHILDY 1988 198	2		49MM2	1000				С			•						a
Subject Control Cont	3																a
Section Company Comp	4							-									a
Partie France 1995 199	5							a				43SS1a					a a
Priest Trace	7					149°29'W		a					610				a
	Ś			2350				a									a
1	9																a
1											-						a
1																	a
1								a					3050				a
1			50LL1	620				a		89	Eaglc Village				141°08'W	3,4,7	a
1	15																a
1.																	а
Source																	a h
Decision Lake						151°12'W					_						b
1				1650	62°31'N	151°29'W	2,3,4,5	a,c					1000				ь
Substitute		Peters Hills								96	Fish Creek					1,2,3,4	ь
Second Color 1985	22																е
Somewhar Tase											•						e
Comparate Comp											_						
25 Sec. Americal State																	ь
25 St. Amer's take								a,c			-	31GG1	2000				Ъ
20 Obberna Lake			46MM1A	1990				a,c		103							Ъ
	29	Lake Louise								104							Ъ
Stiller Misserty																	e :
100 100											-						i
Sheep Nouncain											-						i
15 Tearing River								a			•						i
36 Northington Clacker A5902 2000 671019 1551519 3.4.5 a 111 Table Nonmain 49523a 200 67738 N 14976519 2.4.5.5 a 112 Table Nonmain 49523a 200 67738 N 14976519 2.4.5.5 a 112 Table Nonmain 49523a 200 67738 N 14976519 7 d 49523 2.4.5.5 a 112 Table Nonmain 49523a 200 67738 N 14976519 7 d 49523 2.4.5.5 a 112 Table Nonmain 49523a 49521 2.4.5.5 a 112 Table Nonmain 49523a 2.4.5.5 a 112 Table Nonmai						145°30'W	3,4,5	a			-	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	i
39 Valder 4802 50 61'08'N 166'20'N 2,3,4,5 A 113 Sapon 48011 1000 60'26'N 168'30'N 7 h 50 Valverine Clacier (a) 48LL1 210 60'23'N 168'53'N 2,3,4,5,6,7 8 51 Pruthon Bay 48'V1 30 70'15'N 168'30'N 7 h 50 Valverine Galcier (a) 48LL2 3610 60'25'N 188'53'N 2,3,4,5,6,7 8 51 Noverine Galcier (a) 48LL2 3610 60'25'N 188'53'N 2,3,4,5,6,7 8 51 Noverine Galcier (a) 48LL3 3610 60'25'N 188'53'N 2,3,4,5,6,7 8 52 Ollean Clacier A 4506 490 60'15'N 188'53'N 2,3,4,5,6,7 8 53 Ollean Clacier A 4506 490 60'15'N 188'53'N 1,2,4,6,7 8 54 Ollean Clacier A 4506 490 60'15'N 188'53'N 2,3,4,5,6,7 8 55 Nankomen Lake 48NN1 305 60'15'N 188'30'N 2,3,4,5 6 56 Tak Junction 43001 1650 63'15'N 188'30'N 2,3,4,5 6 57 Nankomen Lake 48NN1 305 63'00'N 188'30'N 2,3,4,5 6 58 Nankomen Lake 48NN1 305 63'00'N 188'30'N 2,3,4,5 6 58 Nankomen Lake 48NN1 305 63'00'N 188'30'N 2,3,4,5 6 59 Nencatar Pasa 43NN1 240 62'21'N 185'22'N 2,3,4,5 6 50 Nencatar Pasa 43NN1 240 62'21'N 185'22'N 2,3,4,5 6 50 Nencatar Pasa 43NN1 240 62'21'N 185'22'N 2,3,4,5 6 50 Nencatar Pasa 43NN1 240 62'21'N 185'22'N 2,3,4,5 7 50 Nencatar Pasa 43NN1 240 62'21'N 185'22'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 51 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 52 Nencatar Pasa 45NN1 300 65'10'N 185'25'N 2,3,4,5 7 53 Prench Creek 45PN1 300 65'10'N 185'25'N 2,3,4,5 7 54 Clacier Creek 45PN1 300 65'10'N 185'25'N 2,3,4,5 7 55 Cartiou Mine 4400 400 400 65'10'N 185'25'N 2,3,4,5 7 56 Clacier Oliver Creek 45PN1 300 65'10'N 185'25'N 2,3,4,5 7 57 Teacher Creek 45PN1 300 65'10'N 185'25'N 2,3,4,5 7 58 Upper Chena 4600 400 65'10'N 185'25'N 2,3,4,5 7 59 New Chena 4600 400 65'10'N 185'25'N 2,3,4,5 7 50 Nencatar Pasa 45NN1 40'NN 20'NN 20'NN 20'NN 20'NN 20'NN 20'NN 20'NN 20'NN 20'NN 20		Worthington Glacier	451012	2400				a		111	Table Mountain					2,3,4,5	i
39 Nolvertine Claster (a) 48LLJ 2130 60°22'N 186°36'W 1,2,4,5,6,7 5 114 Produce Bay 48VVI 30 70°15'N 146°30'W 7 h 41 Nolverine Galeter C 48LLJ 4010 60°25'N 148°55'W 1,2,4,6,7 8 115 Barrow 506WI 5 71°20'N 150°40'W 7 h 42 Gulkana Claster A 45006 4300 61°55'N 185°25'W 2,3,4,5,6,7 8 117 Barrow 506WI 5 71°20'N 137°20'N 1																7	d
Nolverine Calcier (8)											_					7	u h
Welverims Calcier C								_			_					7	h
40 Culkana Claster A 45006 4590 63*15*N 155*25*N 2.3,4,5,6.7 g 117 Barter Island 43VV1 15 70*08*N 143*37*N 7 h 4 4 4 4 4 4 4 4 4								c c								7	h
43 Gulkana Claster B 45007 5480 63°17'N 15°26'W 2,3,4,5,6,7 g 118 Kavík River 4700'W 7 h 43 Gulkana Claster C 45008 6360 63°19'N 15°26'W 3,4,7 g 43 Mankomen Lake 44NN1 3050 63°00'N 147°32'W 2,3,4,5 a 45 Mankomen Lake 44NN1 3050 63°00'N 147°32'W 2,3,4,5 a 47 Mencasta Pass 43NN1 2500 62°18'N 143°00'W 2,3,4,5 a 48 Haggard Greek 45NN1A 2500 62°18'N 143°30'W 2,3,4,5 a 49 Fielding Lake 45001A 3000 63°18'N 145°35'W 2,3,4,5 a 40 Fielding Lake 45001A 3000 63°18'N 145°35'W 2,3,4,5,7 a 40 Fielding Lake 45001A 3000 63°18'N 145°35'W 2,3,4,5,7 a 41 Manson Ridge 46FP1AP 3100 64°38'N 166°40'W 2,3,4,5,7 a 42 Fielding Lake 45001A 46FP3 1500 64°38'N 166°40'W 2,3,4,5,7 a 43 Fielding Lake 45001A 46FP3 1500 64°38'N 166°40'W 2,3,4,5,7 a 44 Manson Ridge 46FP1AP 3100 64°50'N 146°10'W 2,3,4,5,7 a 45 Little Salcha 46FP3 1500 64°38'N 166°40'W 2,3,4,5,7 a 45 Little Salcha 46FP3 1500 66°38'N 166°40'W 2,3,4,5,7 a 45 Little Salcha 46FP3 1500 66°50'N 146°50'W 2,3,4,5,7 a 45 Little Salcha 46FP3 1500 66°50'N 146°50'W 2,3,4,5,7 a 46 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 47 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 48 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 49 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 40 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 40 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 41 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 42 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 43 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 44 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 45 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 46 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 47 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 48 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 48 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 49 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 40 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,4,5,7 a 40 Manson Ridge 46FP1AP 3100 66°50'N 146°50'W 2,3,								5 g								7	h
Mankbomen Lable	43	Gulkana Glacier B	45007	5480	63°17'N			g		118	Kavik River	47001				7	
Tok Junction 43001 1650 63*18*N 143*00*W 2.13.4.5 a								g									
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74 Bettles Field 51R1A 640 66°35'N 151°32'W 3,4 a * a. Aerial stadia marker only 75 Anaktuvuk Pass 51TTIA 2100 68°09'N 151°41'W 3.4 a * M. Soil Moisture Station					64°22'N						* Letters following	ne snow cours	e no. r	rker			
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S. Snow Pillow

AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

FEDERAL

Department of Agriculture
Forest Service
Institute of Northern Forestry
North Tongass National Forest
South Tongass National Forest
Chugach National Forest

Department of Commerce
National Oceanic and Atmospheric Administration
NOAA National Weather Service

Department of Defense
U.S. Army Corps of Engineers
U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior
Bureau of Land Management
Geological Survey
Alaska Power Administration

STATE

Alaska Department of Fish and Game Alaska Department of Highways Alaska Department of Natural Resources, Division of Parks

Alaska Soil Conservation District
Fairbanks Soil Conservation Sub-district
Homer Soil Conservation Sub-district
Kenai-Kasilof Soil Conservation Sub-district
Kenny Lake Soil Conservation Sub-district
Kodiak Soil Conservation Sub-district
Montana Soil Conservation Sub-district
Palmer Soil Conservation Sub-district
Salcha-Big Delta Soil Conservation Sub-district
Wasilla Soil Conservation Sub-district

University of Alaska

MUNICIPALITIES

Municipalaity of Anchorage

PRIVATE

Mt. Alyeska Resort, Inc.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
2221 E. NORTHERN LIGHTS BLVD. ROOM 129
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COOPERATIVE SNOW SURVEYS

domestic and municipal water supply, hydro-electric power water supply for irrigation, necessary for forecasting generation, navigation, Furnishes the basic data mining and industry

"The Conservation of Water begins with the Snow Survey"